AMPEX

- VPR-80 - DIAGNOSTICS REFERENCE CARD -

MACHINE FAULTS	MACHINE FAULTS	
100-03 AST PWA Timer 1 (U3) 100-22 AST PWA Ref Vertical Absent 100-31 AST PWA Ref Frame Absent 100-47 AST PWA Ref Frame 2 (U47) 100-56 AST PWA Timer 2 (U47) 100-56 AST PWA Timer 3 (U56) 101-02 Reg. PWA High Voltage (+250) 102-10 Control PWA RAM 1 (U10) 102-23 Control PWA System Reset 102-25 Control PWA FAM 2 (U25) 102-27 Control PWA Timer 1 (U27) 102-32 Control PWA Timer 2 (U32) 102-44 Control PWA Interrupts 102-P2 Control PWA Probe Fault (during diagnostics) 103-01 Servo PWA Arm Out of Window 103-12 Servo PWA Capstan Not Locked to Reference 103-23 Servo PWA Timer 3 (U23) 103-24 Servo PWA ROM 1 Fault (U24) 103-26 Servo PWA RAM Fault (U26) 103-31 Servo PWA ROM 2 Fault (U31) 103-32 Servo PWA ROM 2 Fault (U31) 103-32 Servo PWA ROM 2 Fault (U31) 103-32 Servo PWA ROM 2 Fault (U31)	103-33 Servo PWA Comm Fault w/ Control PWA (receive) 103-36 Servo PWA Timer 3 (U36) 103-49 Servo PWA Timer 1 (U49) 103-50 Servo PWA Capstan Runaway 103-63 Servo PWA Take-up Reel Fault 103-70 Servo PWA Supply Reel Fault 103-77 Servo PWA Timer 4 (U77) 104-23 Ref PWA Comm Fault (NTSC) 104-29 Ref PWA Comm Fault (PAL) 105-02 Parallel Remote PWA Comm Fault w/Control PWA 106-08 Serial Remote PWA Comm Fault w/Control PWA 108-01 Regulator PWA +15V high 108-02 Regulator PWA +15V low 108-03 Regulator PWA +15V low 108-04 Regulator PWA -15V below minimum 108-05 Regulator PWA -15V below minimum 108-06 Regulator PWA -15V low 108-07 Regulator PWA +11V below minimum 109-03 Secondary Control Panel PWA Communication Fault 110-21 Primary Control Panel PWA	
SYSTEM FAULTS	SYSTEM FAULTS	
01 Reference Absent 02 Video Absent 03 Ref and Video Absent 04 RF Absent 05 Control Track Absent 06 Servos Not Locked 07 Control Track Not Locked 08 Not Field Matched 09 Not Color Framed 10 Scanner Phase Range Exceeded 11 Scanner Stalled	12 Auto Record - Editor Off 13 Not Cued 14 Exit Point Before Entrance 15 Unable to Edit Optimize 16 Manual Tracking Disabled 17 High Line Voltage 18 Low Line Voltage 20 Power Supply Over Temperature 21 Tape Out of Path 22 Cue Point Not Found	

• •	Couring Ctariou				
	FAULT DETECTION ON INITIALIZE				
	Control Initialize	Servo Initialize			
	Internal RAM External RAM Timers Interrupts System Reset Servo Communications Battery Backed-up Data PROM Checksum	Internal RAM External RAM PROM Checksum Control Communications			

- VPR-80 DIAGNOSTICS REFERENCE CARD-

CONTROL MAIN PROGRAM BACKGROUND

Presence of:	Communications with:
Reference Frame Reference Vertical Reference Input Video Input RF Control Track	Servo PWA Parallel Remote PWA Reference PWA Serial Remote PWA Time Code Reader/Generator- Character Generator PWA Secondary Control Panel PWA Primery Control Panel PWA

+250 Volts in range +15 volts high, low or below minimum -15 volts high, low or below minimum +11 volts below minimum Line voltage high or low Power supply temperature

SERVO MAIN PROGRAM BACKGROUND

Position of Tension Arm
Control Communications
Presence of Scanner Tachometer Pulses
Scanner Lock
Control Track Lock
AST Lock
Color Framing

Edit Phase Within Range Scanner Stall

LEGEND SWITCH LI

SWITCH	LEGEND	SWITCH	LEGEND
33	+	16	Auto - 5
32	•	15	EE - 6
31	TSO retard	14	Audio 2 lock out -1
30	TSO advance	13	Insert -2
29	Audio 1 speaker/phones	12	Remote 1-3
28	Audio 2 speaker/phones	11	Audio 3 lockout - Enter
27	Audio 3 speaker/phones	10	Assemble - 0
26	Color frame norm/invert	9	Remote 2 - ←
25	Chroma/eq norm/invert	98765432	Enter
24	Setup	7	Exit
23	Fault	6	Record
22	System	5	Play
21	Edit optimize	4	Variable Play
20	Video lockout - 7	3	Stop
19	Master lockout - 8	2	Cue
18	Ready - 9	1 1	Shuttle
17	Audio 1 lockout - 4		

CODE	MEANING	~
1 2 3 4 5	Switch closed Switch opened after closing Switch stuck shut No switch closed Multiple or incorrect switch or switches pressed	